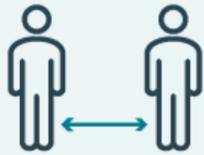




## COVID-19



WEAR A MASK



STAY 6 FEET APART



AVOID CROWDS



GET A VACCINE

# Information about the Pfizer-BioNTech COVID-19 Vaccine

Updated Mar. 4, 2021

[Print](#)

## General information

**Name:** BNT162b2

**Manufacturer:** Pfizer, Inc., and BioNTech

**Type of vaccine:** mRNA

Learn more about [how COVID-19 vaccines work](#) and get a better [understanding of COVID-19 mRNA vaccines](#).

**Number of shots:** 2 shots, 21 days apart

**How given:** Shot in the muscle of the upper arm

**Does not contain:**

- Eggs
- Preservatives
- Latex

For a full list of ingredients, see [Pfizer's COVID-19 Vaccine Fact Sheet for Recipients and Caregivers \[200 KB, 6 pages\]](#) [↗](#)

### Who should get vaccinated

- The Pfizer-BioNTech vaccine is recommended for people aged 16 years and older. Learn more about [how CDC is making COVID-19 vaccine recommendations](#) and [CDC's vaccine rollout recommendations](#).

### Who should not get vaccinated

- If you have had a severe allergic reaction (anaphylaxis) or an immediate allergic reaction—even if it was not severe—to any ingredient in an mRNA COVID-19 vaccine (such as polyethylene glycol), you should not get an mRNA COVID-19 vaccine.\*
- If you have had a severe allergic reaction (anaphylaxis) or an immediate allergic reaction—even if it was not severe—after getting the first dose of the vaccine, you should not get a second dose of either of the mRNA COVID-19

vaccines.\*

- An allergic reaction is considered severe when a person needs to be treated with epinephrine or EpiPen® or if they must go to the hospital. Learn about [common side effects of COVID-19 vaccines](#) and when to call a doctor.
- An immediate allergic reaction means a reaction within 4 hours of getting vaccinated, including symptoms such as hives, swelling, or wheezing (respiratory distress).

If you aren't able to get an mRNA COVID-19 vaccine, you may still be able to get a different type of COVID-19 vaccine. Learn more [information for people with allergies](#).

## Side effects

### Common side effects

In the arm where you got the shot:	Throughout the rest of your body:
<ul style="list-style-type: none"><li>• Pain</li><li>• Redness</li><li>• Swelling</li></ul>	<ul style="list-style-type: none"><li>• Tiredness</li><li>• Headache</li><li>• Muscle pain</li><li>• Chills</li><li>• Fever</li><li>• Nausea</li></ul>

These side effects usually start within a day or two of getting the vaccine. Side effects might affect your ability to do daily activities, but they should go away in a few days. [Get tips on what to expect after getting vaccinated](#).

## Summary of safety data

- [In clinical trials](#), reactogenicity symptoms (side effects that happen within 7 days of getting vaccinated) were common but were mostly mild to moderate.
- Side effects (such as fever, chills, tiredness, and headache) throughout the body were more common after the second dose of the vaccine.
- Most side effects were mild to moderate. However, a small number of people had severe side effects—defined as side effects affecting a person's ability to do daily activities.
- Although few people in the clinical trials went to the hospital or died, data suggest that people who got the Pfizer-BioNTech vaccine were less likely to have these more serious outcomes compared to people who got the saline placebo.
- CDC will continue to provide updates as we learn more about the safety of the Pfizer-BioNTech vaccine in real-world conditions. [Learn more about vaccine safety monitoring after a vaccine is authorized or approved for use](#).

[Learn more about safety and reactogenicity data from the clinical trials](#).

## Information on how well the vaccine works

- Based on [evidence from clinical trials](#), the Pfizer-BioNTech vaccine was 95% effective at preventing laboratory-confirmed COVID-19 illness in people without evidence of previous infection.
- CDC will continue to provide updates as we learn more about how well the Pfizer-BioNTech vaccine works in real-world conditions.

# Demographic information from clinical trials

Phase 2 and 3 clinical trials for the Pfizer-BioNTech vaccine included people from the following racial and ethnic categories:

- 81.9% White
- 26.2% Hispanic/Latino
- 9.8% African American
- 4.4% Asian
- <3% other races/ethnicities

Age and sex breakdown:

- 50.6% male
- 49.4% female
- 21.4% 65 years and older

The most frequent underlying medical conditions were obesity (35.1%), diabetes (8.4%), and pulmonary disease (7.8%).

[Learn more about demographic information for people who participated in the trials. \[1.13 MB, 53 pages\]](#) 



## For Healthcare Workers

[Pfizer-BioNTech COVID-19 Vaccine: General information, schedule and administration overview.](#)

## More Information

[What to Expect After Getting a COVID-19 Vaccine](#)

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[Learn more about how federal partners are ensuring the safety of COVID-19 vaccines](#)

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[Learn more about the benefits of getting a COVID-19 vaccine](#)

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[MMWR: Allergic Reactions Including Anaphylaxis After Receipt of the First Dose of Pfizer-BioNTech COVID-19 Vaccine — United States, December 14–23, 2020](#)

Last Updated Mar. 4, 2021